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CLAIMS

- 1. Use of an enzyme treated fish protein hydrolysate (FPH) material for the preparation of a pharmaceutical or nutritional preparation for the treatment and/or prevention of atherosclerosis, coronary heart disease, stenosis, thrombosis, myocardial infarction, stroke and fatty liver in an animal.
 - 2. Use of the FPH material for the preparation of a pharmaceutical or nutritional composition for the treatment and/or prevention of hypercholesterolemia.
 - 3. Use of a the FPH material for the preparation of a pharmaceutical or nutritional composition for lowering the concentration of homocysteine in the plasma.
- 4. Use of the FPH material for the preparation of a pharmaceutical or nutritional cardio protective composition.
 - 5. Use of the FPH material in accordance with one of the preceding claims, wherein said animal is a human.
- 6. Use of the FPH material in accordance with one of the preceding claims, wherein said animal is an agricultural animal, such as gallinaceous birds, bovine, ovine, caprine or porcine mammals.
- 7. Use of the FPH material in accordance with one of the preceding claims, wherein said animal is a domestic or pet animal, such as dog or cat.
 - 8. Use of the FPH material in accordance with one of the preceding claims,, wherein said animal is a fish or shellfish, such as salmon, cod, Tilapia, clams, oysters, lobster or crabs.
 - 9. Use in accordance with claim 1, wherein the fish material is fish flesh remnants on salmon bone frames after filleting.

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- 10. Use in accordance with claim 1, wherein the hydrolysis is conducted by the enzyme material is a Bacillus protease complex (ProtamexTM).
- 11. Use in accordance with claim 1, wherein the enzymatic hydrolysis is performed at a pH in the range of 5,0-8,0, preferable 6,0-7,0, most preferable at about 6,5.
 - 12. Use in accordance with claim 1, wherein the enzymatic hydrolysis is performed at a temperature in the range of 40 70°C, more preferable 50 60°C, and most preferable at about 65°C.
 - 13. Use in accordance with one of the claims 1-12, wherein the composition is a food grade product or additive, e.g. an animal feed or pet food.
- 14. Process for the production of an enzyme treated fish protein hydrolysate (FPH), characterized in that the process comprises the following steps:
 - a) fish flesh remnants are hydrolyzed with a protease enzyme at a pH in the range of 5,0-8,0, preferable 6,0-7,0, most preferable at about 6,5, and at a temperature in the range of 40 70°C, more preferable 50 60°C, and most preferable at about 65°C,
- b) the temperature is elevated to about 90 99 °C
 - c) an insoluble fraction was removed by decanting and filtering, and the remaining mixture was separated in a three phase separator into an oil fraction, an emulsion fraction and an aqueous fraction, and
- d) the aqueous fraction was isolated, and thereafter filtered through a ultramembrane with a nominal molecular weight limit of 100 000, and thereafter spray-dryed.
- 15. Process in accordance with claim 14, wherein the PFH material contains proteins in the range 70-90%, preferable 80-85%, and most preferable about 83%.
 - Process in accordance with claim 14, wherein the amino acid content of the PFH material is as given in table 2.